

Pesquisa defeitos a recuperação do bootflash e da imagem do sistema para CGOS CGR 1000

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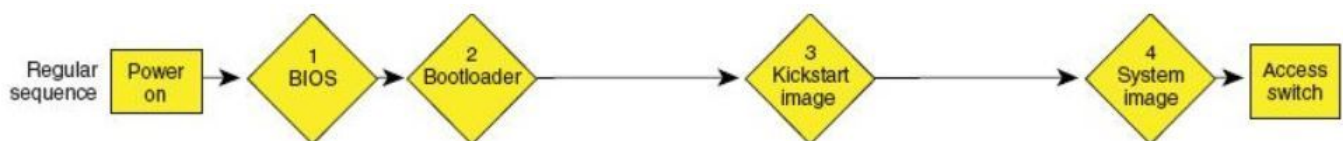
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Introdução

Este documento descreve etapas do troubleshoot para recuperar o bootflash e a imagem do sistema em CGR 1000.

Informações de Apoio

A placa de memória de Cisco Secure Digital do uso CGR1000 (SD) ao armazenado kickstart imagens, imagens do sistema, configurações, etc. Em ocasiões raras, o cartão SD obtém corrompido. Em consequência, a imagem do kickstart e/ou a imagem do sistema obtém corrompidas. Isto impede que o CGR carreg acima. A sequência para a inicialização é esboçada na figura dada. O esboço do procedimento neste artigo é restaurar o CGR de um estado corrompido da placa de memória SD.



Pré-requisitos

1. Server do Trivial File Transfer Protocol (TFTP) instalado no PC local
2. Setup o servidor TFTP para ter a imagem do kickstart e a imagem do sistema

Requisitos

A Cisco recomenda que você tenha conhecimento destes tópicos:

1. Cabo do console
2. CAT5

3. A imagem do kickstart e as imagens do sistema

Componentes Utilizados

Este documento é restringido somente à versão CGOS que é executado em CGR 1120 e em CGR1240.

As informações neste documento foram criadas a partir de dispositivos em um ambiente de laboratório específico. Todos os dispositivos utilizados neste documento foram iniciados com uma configuração (padrão) inicial. Se a sua rede estiver ativa, certifique-se de que entende o impacto potencial de qualquer comando.

Etapas de recuperação

1. Cabo do console da instalação usando a massa de vidraceiro.
2. Conecte o cabo CAT5 do PC local NIC ao CGR ETH 2/2. Esta é a única relação que trabalha na altura do processo de recuperação.
3. Setup o PC local NIC para estar na mesma sub-rede como o CGR.

Por exemplo; O PC NIC é sub-rede 255.255.255.0 de 192.0.2.1.

Para o CGR seja sub-rede 255.255.255.0 de 192.0.2.2.

4. Na sessão da massa de vidraceiro, você vê:

```
"loader>"
```

```
IOFPGA @ 0xd0000000 version=0x30020700, datecode=0xc080d17 CPLD version 0x14  
Reset Reason = 0(0)  
Scratch pad test passed !!!
```

```
BIOS Version: Build # 12 - Wed 06/27/2012  
CGR Loader Version: 1.00.01
```

```
Filesystem type is ext2fs, partition type 0x83  
Filesystem type is ext2fs, partition type 0x83
```

```
GNU GRUB version 0.97
```

```
CGR Loader Version 1.00.01
```

```
loader>
```

5. Setup o endereço IP de Um ou Mais Servidores Cisco ICM NT de ETH2/2 com o comando "ajustam o IP".

```
set ip 192.0.2.2 255.255.255.0
```

```
Correct - ip addr is 192.0.2.2, mask is 255.255.255.0
Found Intel IOH GBE [2:0.1] at 0xe020, ROM address 0x0000
Probing...[Intel IOH GBE]
MAC address 78:da:6e:8:ad:e1
External PHY link UP @ 1000/full
Address: 192.0.2.2
Netmask: 255.255.255.0
Server: 0.0.0.0
Gateway: 0.0.0.0
```

```
loader>
```

6. Setup o endereço de gateway para ser o PC local NIC com o comando “gw ajustado”.

```
set gw 192.0.2.1
```

```
Correct gateway addr 192.0.2.1
Address: 192.0.2.2
Netmask: 255.255.255.0
Server: 0.0.0.0
Gateway: 192.0.2.1
```

7. Carreg a imagem do kickstart do server local de tftp com o comando “bota tftp://”.

```
loader> boot tftp://192.0.2.1/cgr1000-uk9-kickstart.5.2.1.CG4.3.SPA.bin      ??????
Address: 192.0.2.2
Netmask: 255.255.255.0
Server: 192.0.2.1
Gateway: 192.0.2.1
  Filesystem type is tftp, using whole disk
Booting: /cgr1000-uk9-kickstart.5.2.1.CG4.3.SPA.bin console=ttyS0,9600n8nn quiet loader_ver="1.00.01"....
.....
.....Kickstart image verification Successful
Image verification OK
```

```
INIT: Checking all filesystems ..... done.
Warning: switch is starting up with default configuration
Creating boot config file...
/etc/rc.d/rcS.d/S26check-flash: line 528: /mnt/bootloader/boot/grub/menu.lst.local: No such file
or directory
cp: cannot stat `/mnt/cfg/0/boot/grub/menu.lst.local': No such file or directory
WARNING: image sync is going to be disabled after a loader netboot
Loading system software
INIT: Sending processes the TERM signal?[H?[J
INIT: Sending processes the TERM signal
INIT: Sending processes the
```

```
KILL signal
```

8. Uma vez botas da imagem acima, você verá uma saída que seja similar a esta saída.

```
Router(boot)# ?
Exec commands:
clear      Reset functions
config     Enter configuration mode
copy       Copy from one file to another
delete     Delete a file or directory
dir        Directory listing for files
exit       Exit from the EXEC
find       Find a file below the current directory
```

```

format      Format disks
init        Initialize internal disk
load        Load system image
mkdir       Create new directory
move        Move files
no          Disable debugging functions
pwd         View current directory
reload      Reboot this supervisor module
rmdir       Remove existing directory
show        Show running system information
sleep       Sleep for the specified number of seconds
ssh         SSH to another system
tail        Display the last part of a file
telnet      Telnet to another system

```

9. Formate o cartão corrompido SD com formato bootflash do comando o “:”.

This command is going to erase the contents of your bootflash:.

Do you want to continue? (y/n) [n] y

```

Formatting bootflash:
Formatting started at:  Fri Feb 20 23:56:00 UTC 2015
mke2fs 1.35 (28-Feb-2004)
Formatting finished at:  Fri Feb 20 23:56:52 UTC 2015
Formatting completed

```

10. Execute o sistema do init (etapa da opção: este os formatos de comando o cartão SD e limpam para fora tudo).

```

Router(boot)# init system
This command is going to erase your startup config, licenses as well as the contents of your bootflash:-

```

```

Do you want to continue? (y/n) [n] yInitializing the system
mount: /dev/mmcblk0p4 already mounted or /bootflash busy
mount: according to mtab, /dev/mmcblk0p4 is already mounted on /bootflash
ERROR: cannot mount filesystem
cp: omitting directory ^/bootflash/!
Partitioning failed

```

11. Setup a interface de gerenciamento (isto é exigido a fim copiar o kickstart e a imagem do sistema no bootflash).

```

Router(boot)# configure terminal
Router(boot)(config)# interface mgmt0
Router(boot)(config-if)#ip address 192.0.2.2 255.255.255.0
Router(boot)(config-if)#no shut

```

12. Copie o kickstart e a imagem do sistema no bootflash.

```

Router(boot)# copy tftp://192.0.2.1/cgr1000-uk9-kickstart.5.2.1.CG4.3.SPA.bin bootflash:
Trying to connect to tftp server.....
Connection to server Established. Copying Started.....

```

```

TFTP get operation was successful
Copy complete, now saving to disk (please wait)...

```

```

Router(boot)# copy tftp://192.0.2.1/cgr1000-uk9.5.2.1.CG4.3.SPA.bin bootflash:
Trying to connect to tftp server.....
Connection to server Established. Copying Started.....

```

TFTP get operation was successful
Copy complete, now saving to disk (please wait)...

13. Verifique que o kickstart e a imagem do sistema estão no CGR com "dir".

```
Router(boot)#dir
 29167616    Feb 21 00:39:59 2015  cgr1000-uk9-kickstart.5.2.1.CG4.3.SPA.bin
143332283    Feb 21 00:42:06 2015  cgr1000-uk9.5.2.1.CG4.3.SPA.bin
      372     Feb 23 17:55:52 2015  fpga.log
      1905    Feb 23 18:39:54 2015  mts.log
```

```
Usage for bootflash://
691462144 bytes used
8859394048 bytes free
9550856192 bytes total
```

14. Carreg a imagem do sistema com da "o comando do bootflash carga".

```
Router(boot)# load bootflash:cgr1000-uk9.5.2.1.CG4.3.SPA.bin
```

```
Loading system software
Uncompressing bootflash:/cgr1000-uk9.5.2.1.CG4.3.SPA.bin.....done. (in 37 seconds)
Loading plugin 0: core_plugin...
```

```
INIT: Switching to runlevel: 3
INIT: Sending processes the TERM signal
Router(boot)#
```

```
INIT:
System is coming up ... Please wait ...
System is coming up ... Please wait ...
System is coming up ... Please wait ...
System is coming up ... Please wait ...
System is coming up ... Please wait ...
System is coming up ... Please wait ...
System is coming up ... Please wait ...
System is coming up ... Please wait ...
System is coming up ... Please wait ...
System is coming up ... Please wait ...
System is coming up ... Please wait ...
System is coming up ... Please wait ...
2015 Feb 21 00:47:56  %$ VDC-1  %$ %COPP-2-COPP_NO_POLICY: Control-plane is unprotected.System is
coming up ... Please wait ...
2015 Feb 21 00:47:58  %$ VDC-1  %$ %VDC_MGR-2-VDC_ONLINE: vdc 1 has come online 2015 Feb 21
00:47:58 Router %$ VDC-1  %$ %PLATFORM-2-
```

```
INPUT_POWER_SOURCE_TRANSITION: Three Phase and DC Input Status Alert:  L1 Phase ON, L2 Phase
OFF, L3 Phase OFF, DC Input Absent
```

15. Uma vez as botas CGR acima na imagem do sistema, você precisa de instalar o kickstart e a imagem do sistema com "instala todo o bootflash: bootflash do sistema do <kickstart-image>: image> do <system>".

```
cgr1120# install all kickstart bootflash:cgr1000-uk9-kickstart.5.2.1.CG4.3.SPA.bin system
bootflash:cgr1000-uk9.5.2.1.CG4.3.SPA.bin
```

```
Verifying image bootflash:/cgr1000-uk9-kickstart.5.2.1.CG4.3.SPA.bin for boot variable
"kickstart".
-- SUCCESS
```

```
Verifying image bootflash:/cgr1000-uk9.5.2.1.CG4.3.SPA.bin for boot variable "system".
-- SUCCESS
```

Verifying image type.

-- SUCCESS

Extracting "system" version from image bootflash:/cgr1000-uk9.5.2.1.CG4.3.SPA.bin.

-- SUCCESS

Extracting "kickstart" version from image bootflash:/cgr1000-uk9-kickstart.5.2.1.CG4.3.SPA.bin.

-- SUCCESS

Extracting "bios" version from image bootflash:/cgr1000-uk9.5.2.1.CG4.3.SPA.bin.

-- SUCCESS

Checking for Battery Power Mode.

-- SUCCESS

Checking for Module Power Status.

-- SUCCESS

Checking for WPAN upgrade compatibility.

-- SUCCESS

Performing module support checks.

-- SUCCESS

Notifying services about system upgrade.

-- SUCCESS

Compatibility check is done:

Module	bootable	Impact	Install-type	Reason
1	yes	disruptive	reset	Hitless upgrade is not supported

Images will be upgraded according to following table:

Module	Image	Running-Version(pri:alt)	New-Version	Upg-Required
1	system	5.2(1)CG4(3)	5.2(1)CG4(3)	no
1	kickstart	5.2(1)CG4(3)	5.2(1)CG4(3)	no
1	bios	v16.1.0(10/15/2013):V12.1.0(06/27/2012)	v16.1.0(10/15/2013)	no
1	fpga	2.07.00	2.07.00	no

Switch will be reloaded for disruptive upgrade.

Do you want to continue with the installation (y/n)? [n] y